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Abstract

PURPOSE: To correct fluctuation of intensity of light rays emitted from a light source and carry out measurement at high precision by transmitting light rays of the light source to a sensing element through a photo-transmission route and detecting turning back light rays by a photodetector.

CONSTITUTION: Light rays emitted from a light source 1 are divided to optical fibers 6c, 6d of a dividing route of a fused type fiber coupler 5 and transmitted to a pressure sensor head 2 and a second photodetector 4, respectively. The light rays transmitted to the sensor head 2 are reflected by a flexible reflecting film of the sensor head 2 and become turning back rays which are divided to optical fibers 6a, 6b in the dividing route of the coupler 5 and received by the light source 1 and a first photodetector 3, respectively. Alteration of luminous intensity of the turning back light rays is detected by the detector 3 and the detected luminous intensity is corrected with the luminous intensity of the light source detected by the detector 4 and thus the luminous intensity of the turning back light rays corresponding to the pressure applied to the sensor head 2 is measured.

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CLAIMS

No Claims were found.

DESCRIPTION

Text Not Available.